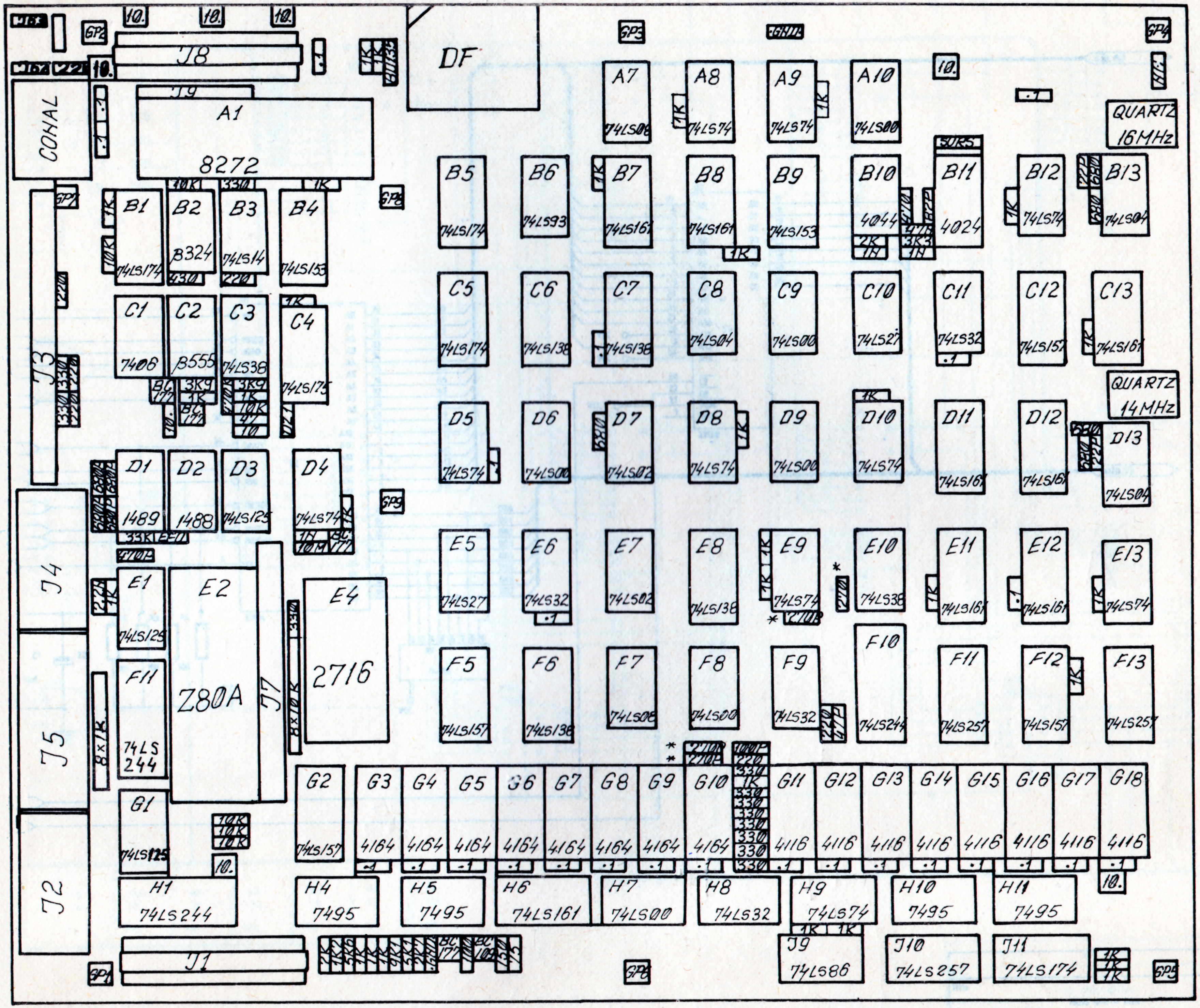
HC 88

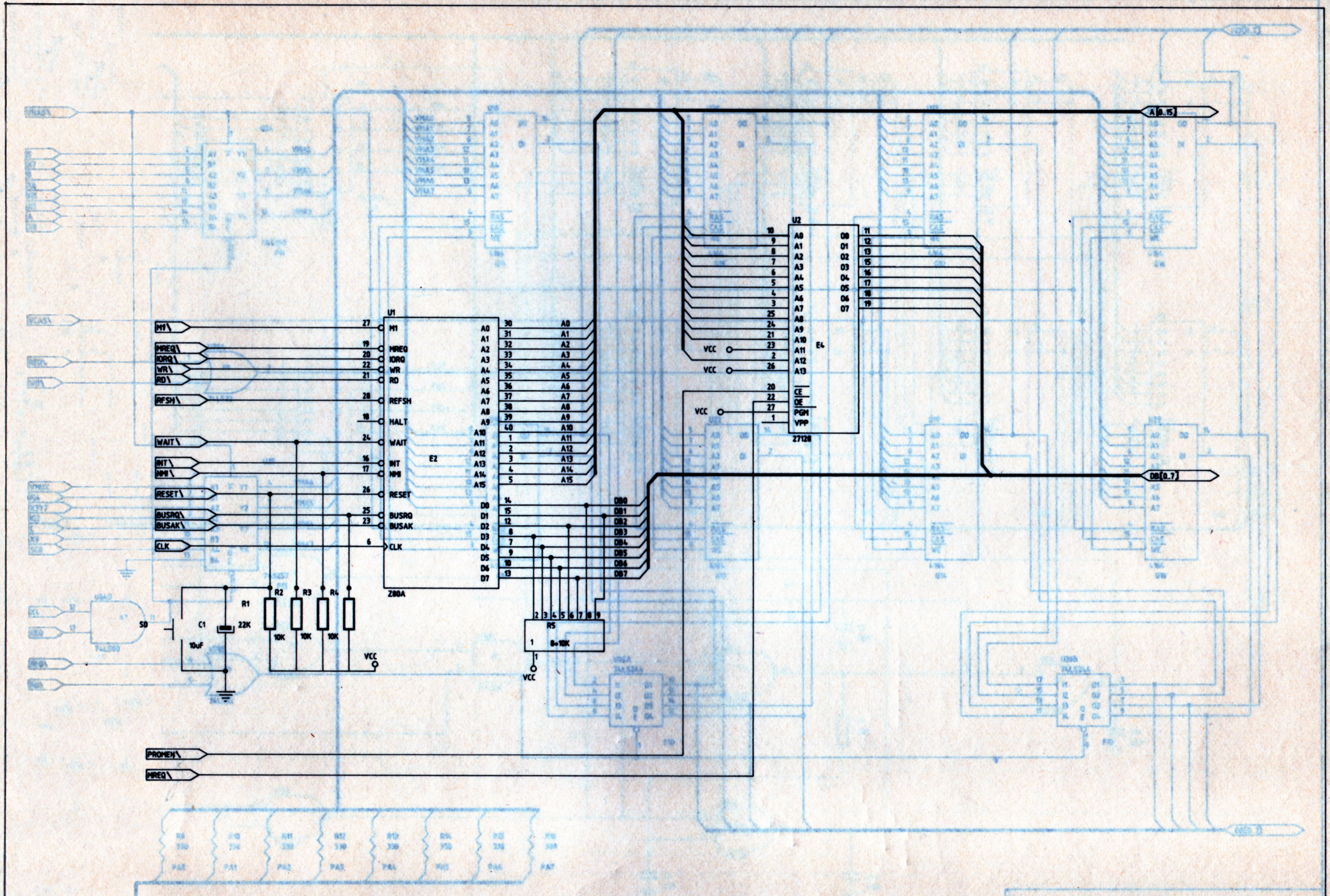
SCHEME LOGICE

ice felix
Data Processing Systems

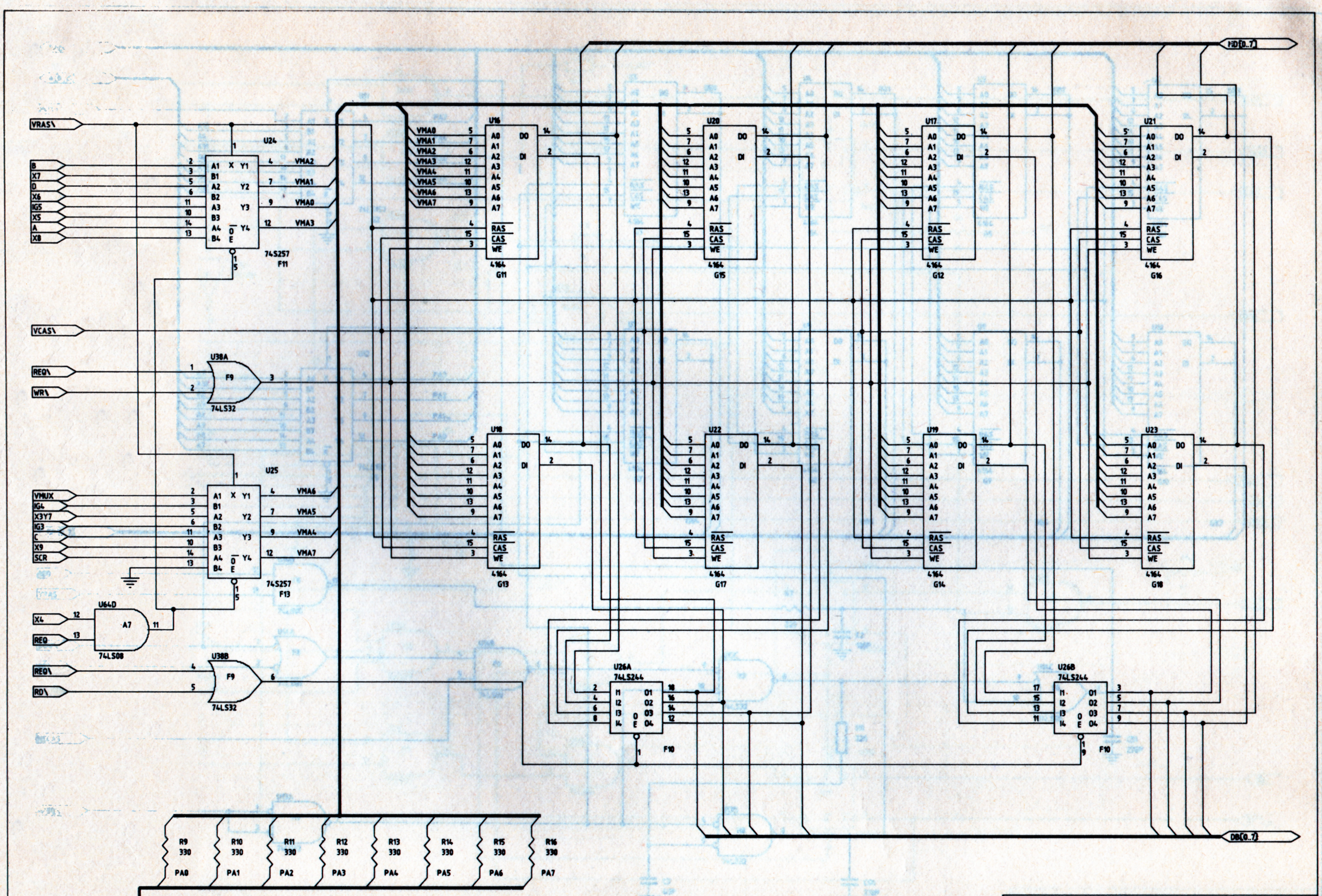
întreprinderea de calculatoare electronice



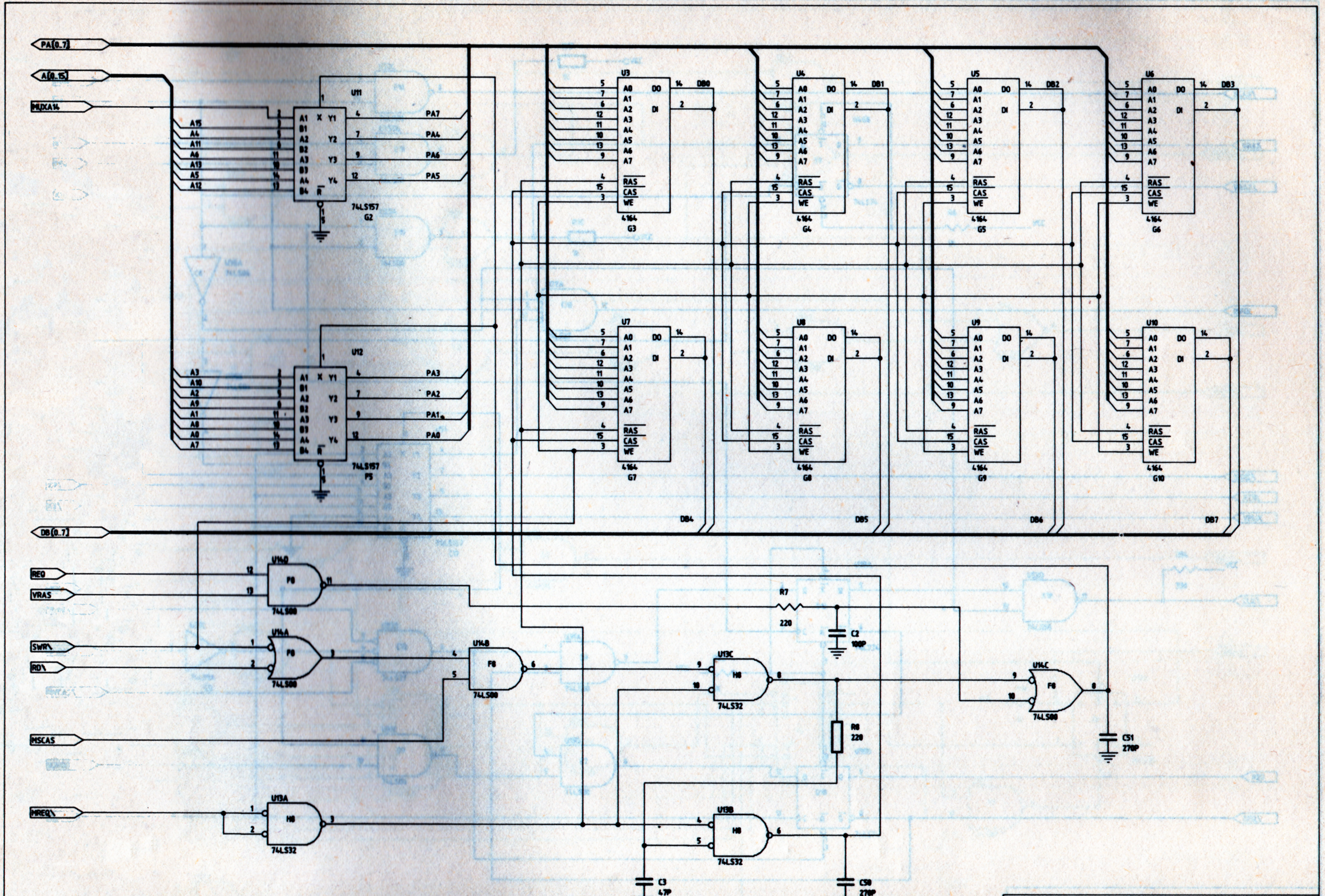
GP2
J8
DF
GP3
GP4
QUARTZ 16MHz
COHAL
J9
A1 8272
A7 74LS08
A8 74LS74
A9 74LS74
A10 74LS00
B1 74LS174
B2 B324
B3 74LS14
B4 74LS153
B5 74LS174
B6 74LS93
B7 74LS161
B8 74LS161
B9 74LS153
B10 4044
B11 4024
B12 74LS74
B13 74LS04
J3
C1 7406
C2 B555
C3 74LS38
C4 74LS175
C5 74LS174
C6 74LS138
C7 74LS138
C8 74LS04
C9 74LS00
C10 74LS27
C11 74LS32
C12 74LS157
C13 74LS161
QUARTZ 14MHz
D1 1489
D2 1488
D3 74LS125
D4 74LS74
D5 74LS74
D6 74LS00
D7 74LS02
D8 74LS74
D9 74LS00
D10 74LS74
D11 74LS161
D12 74LS161
D13 74LS04
J4
E1 74LS125
E2 Z80A
E4 2716
J7
E5 74LS27
E6 74LS32
E7 74LS02
E8 74LS138
E9 74LS74
E10 74LS38
E11 74LS161
E12 74LS161
E13 74LS74
J5
F11 74LS 244
F5 74LS157
F6 74LS138
F7 74LS08
F8 74LS00
F9 74LS32
F10 74LS244
F11 74LS257
F12 74LS157
F13 74LS257
G1 74LS125
G2 74LS157
G3 4164
G4 4164
G5 4164
G6 4164
G7 4164
G8 4164
G9 4164
G10 4164
G11 4116
G12 4116
G13 4116
G14 4116
G15 4116
G16 4116
G17 4116
G18 4116
J2
H1 74LS244
H4 7495
H5 7495
H6 74LS161
H7 74LS00
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J1
J9 74LS86
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J11 74LS174
GP1
GP6
GP5



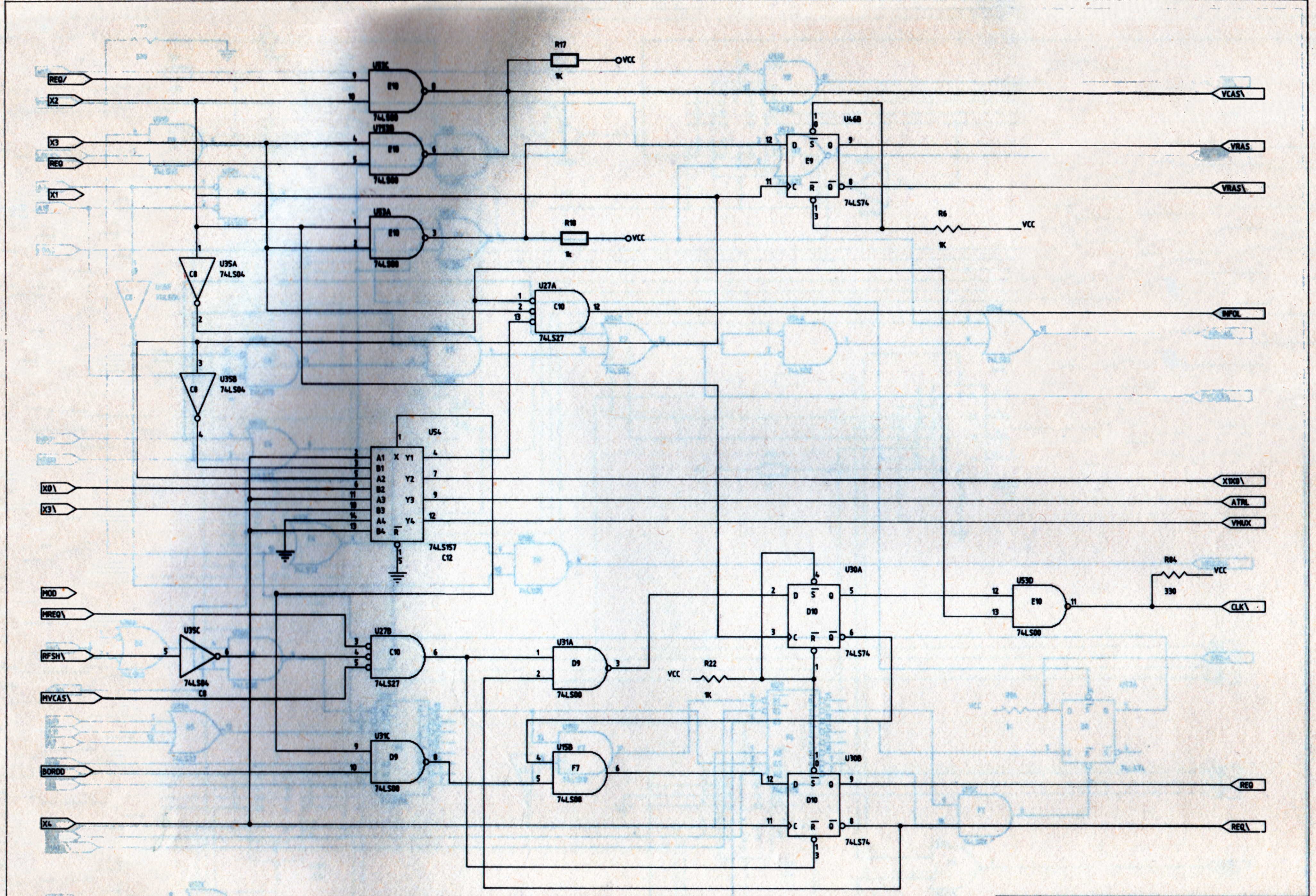
Title	HC88 CPU - ROM	
Size B	Document Number 069300350	REV A
Date: May 3, 1989	Sheet 1 of 14	



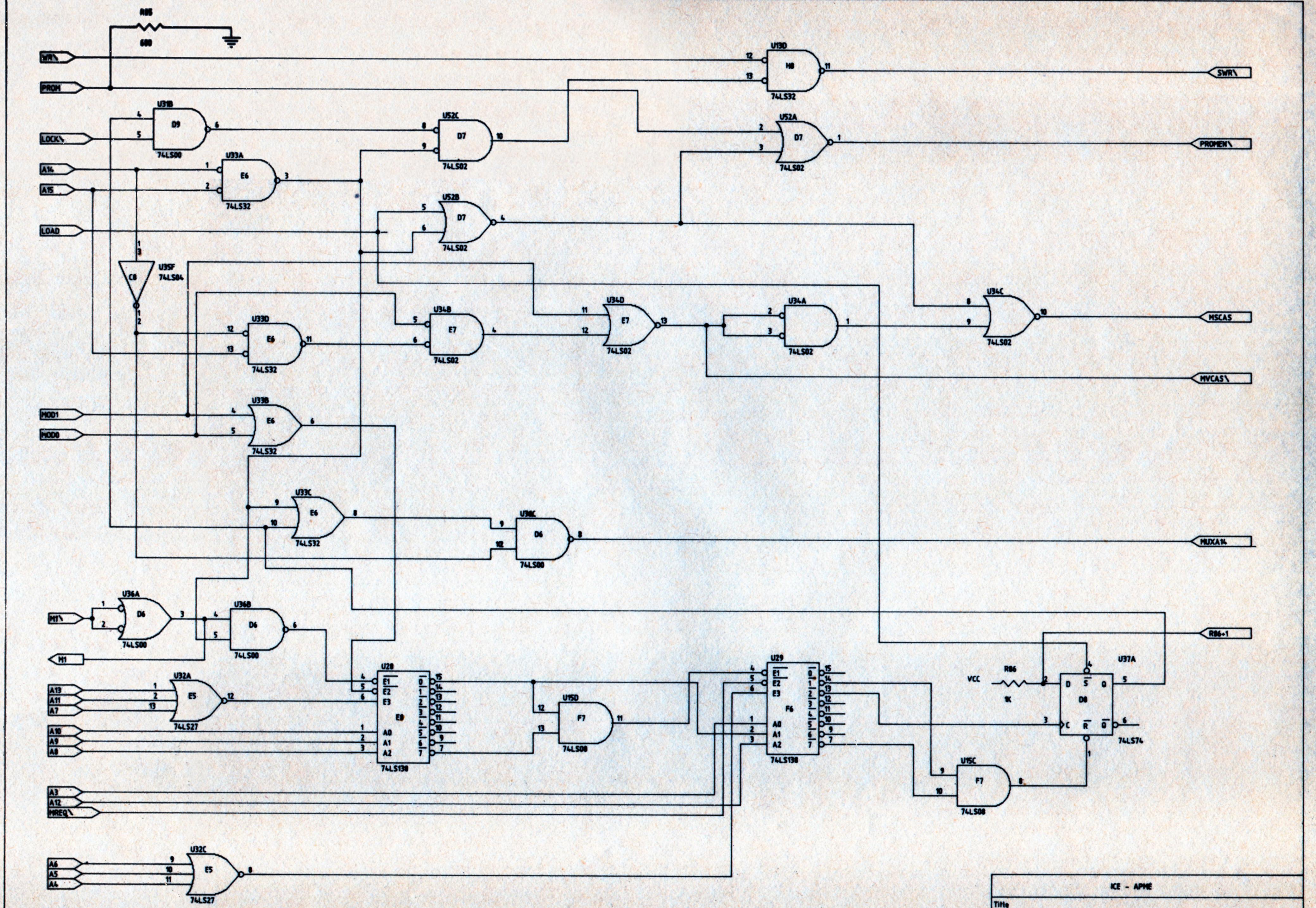
ICE - APME		
Title: HC88 VIDEO MEMORY		
Size: B	Document Number	REV: A
Date: May 22, 1989	Sheet 2	of 14



ICE - APME		
Title: HC08 64K RAM		
Size: B	Document Number: 069300350	REV: A
Date: May 3, 1989	Sheet 3 of 14	



ICE - APME		
Title: HC88 TIMING		
Size: B	Document Number: 869300350	REV: A
Date: May 3, 1989	Sheet 4 of 14	



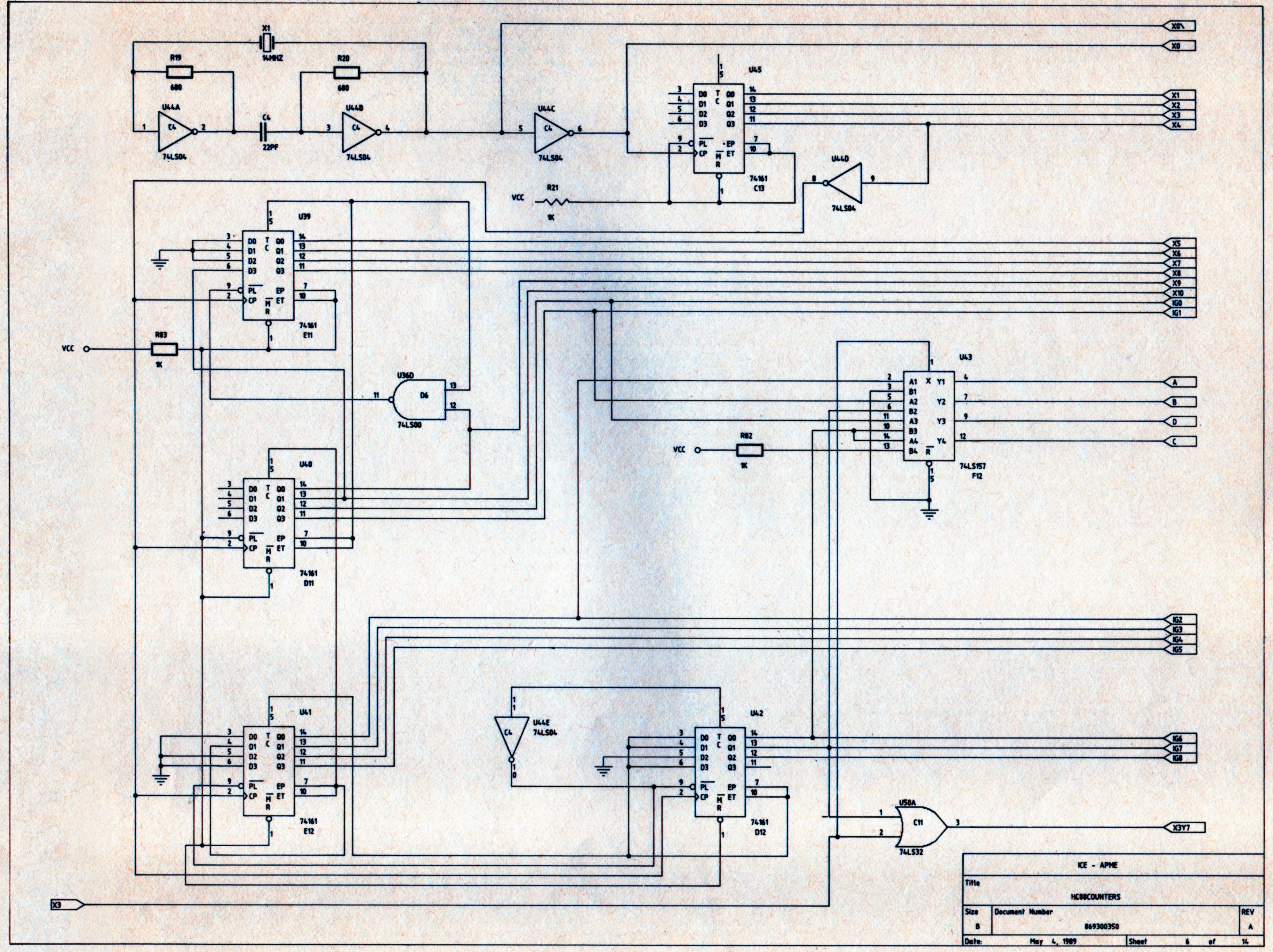
ICE - APME

Title

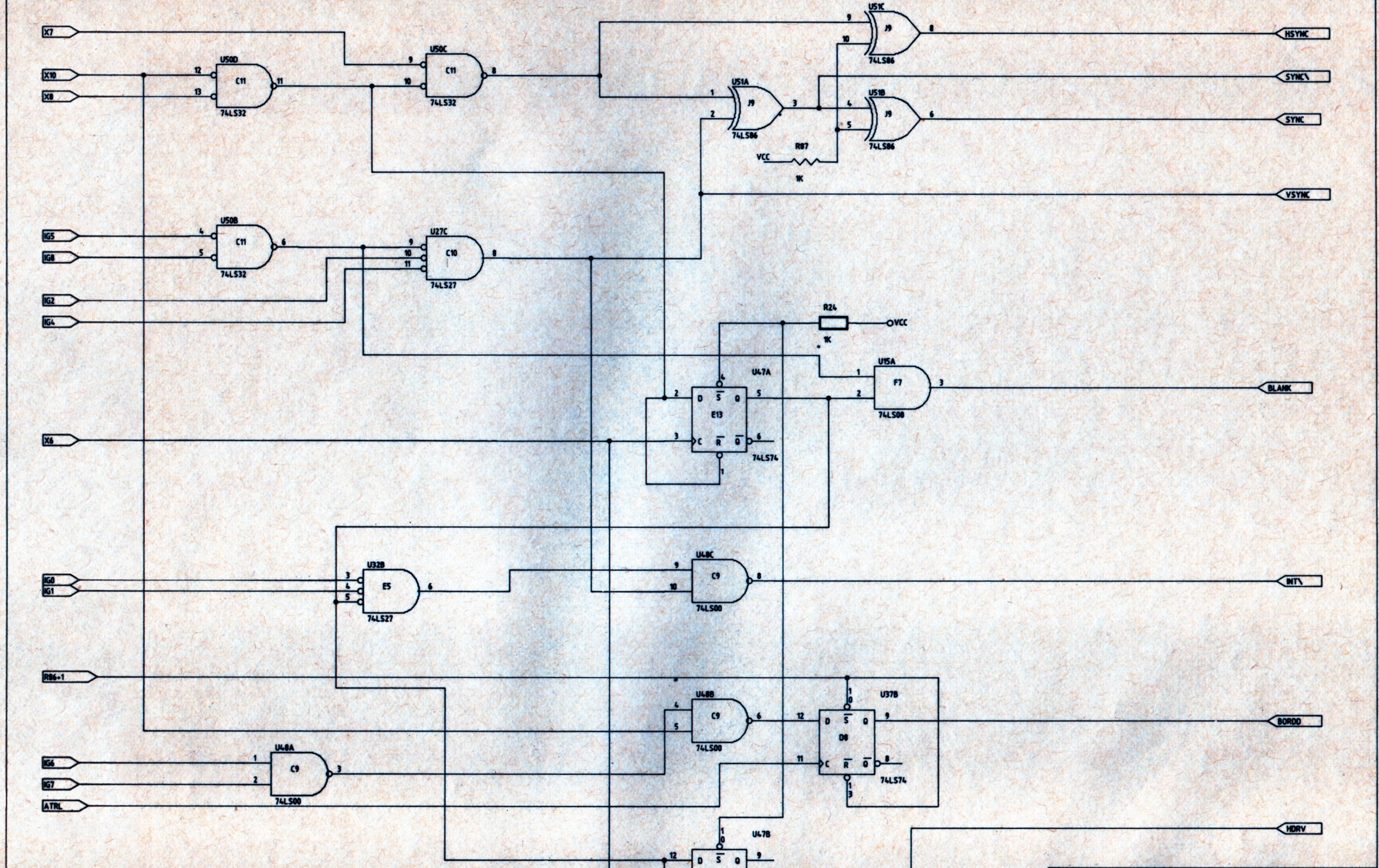
HC88 MEMORY SELECTION

Size	Document Number	REV
B	869300350	A

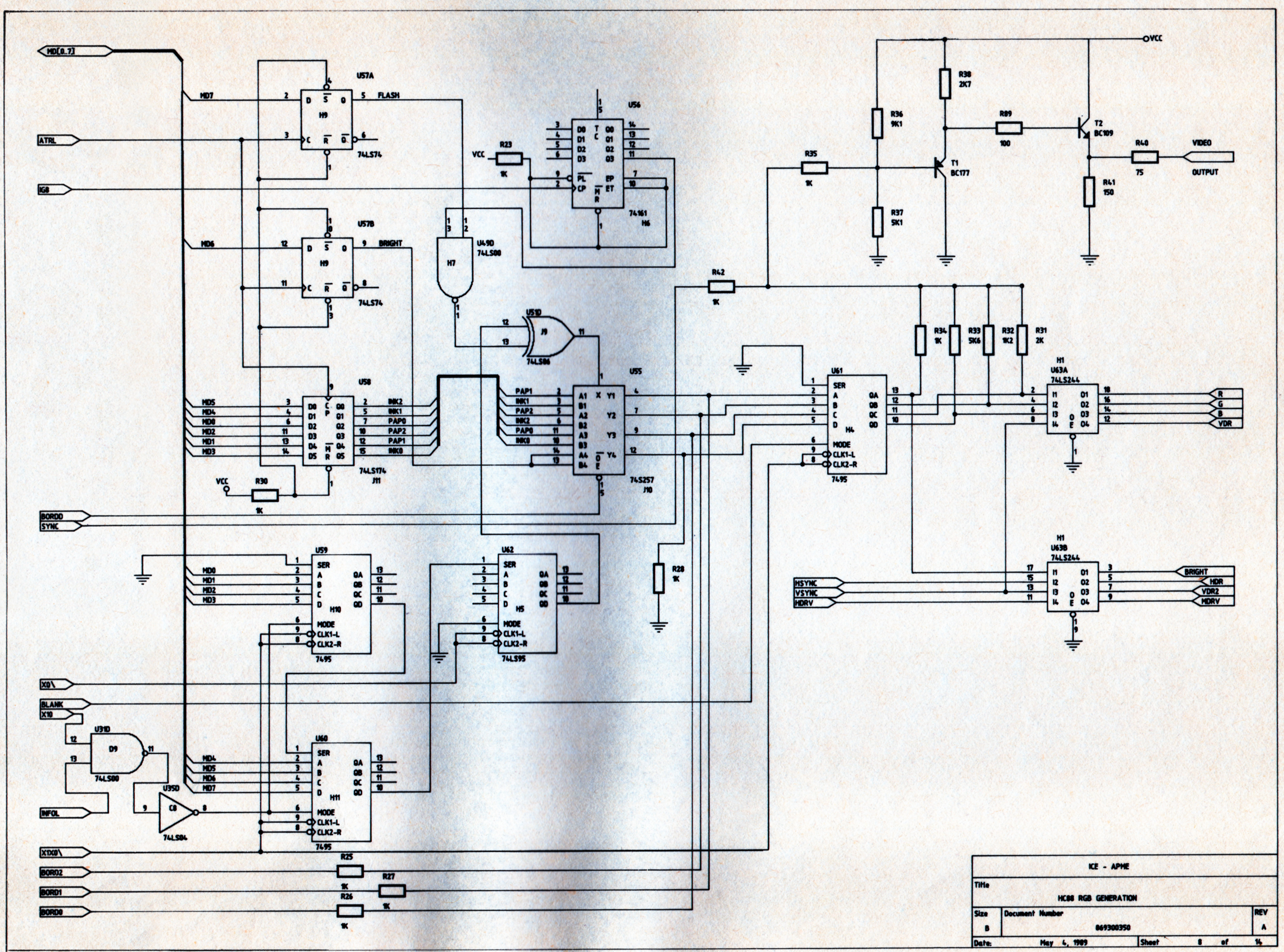
Date: May 4, 1989 | Sheet 5 of 14



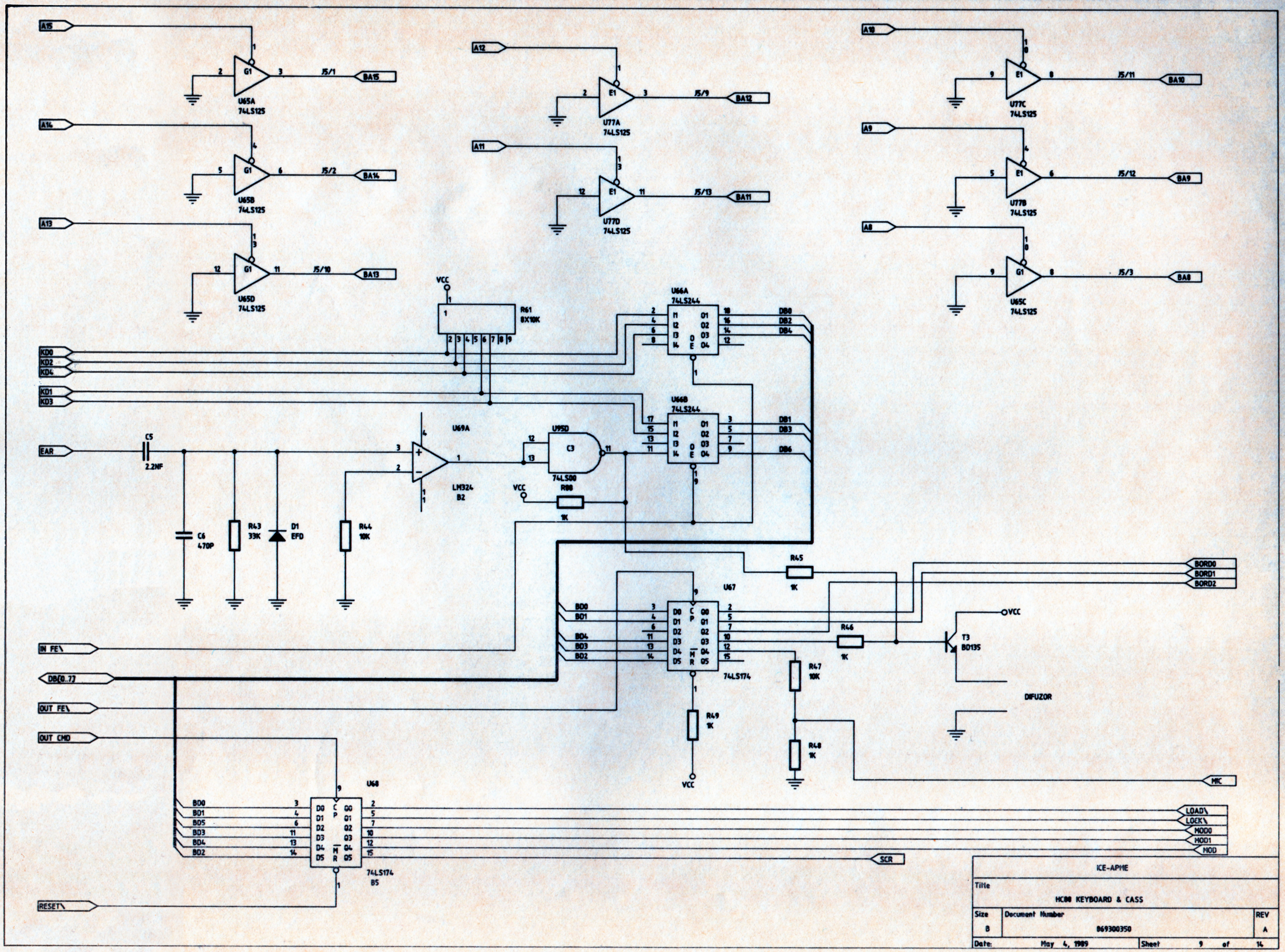
ICE - APME		
Title: HC88COUNTERS		
Size: B	Document Number: 869300350	REV: A
Date: May 4, 1989	Sheet 6 of 14	

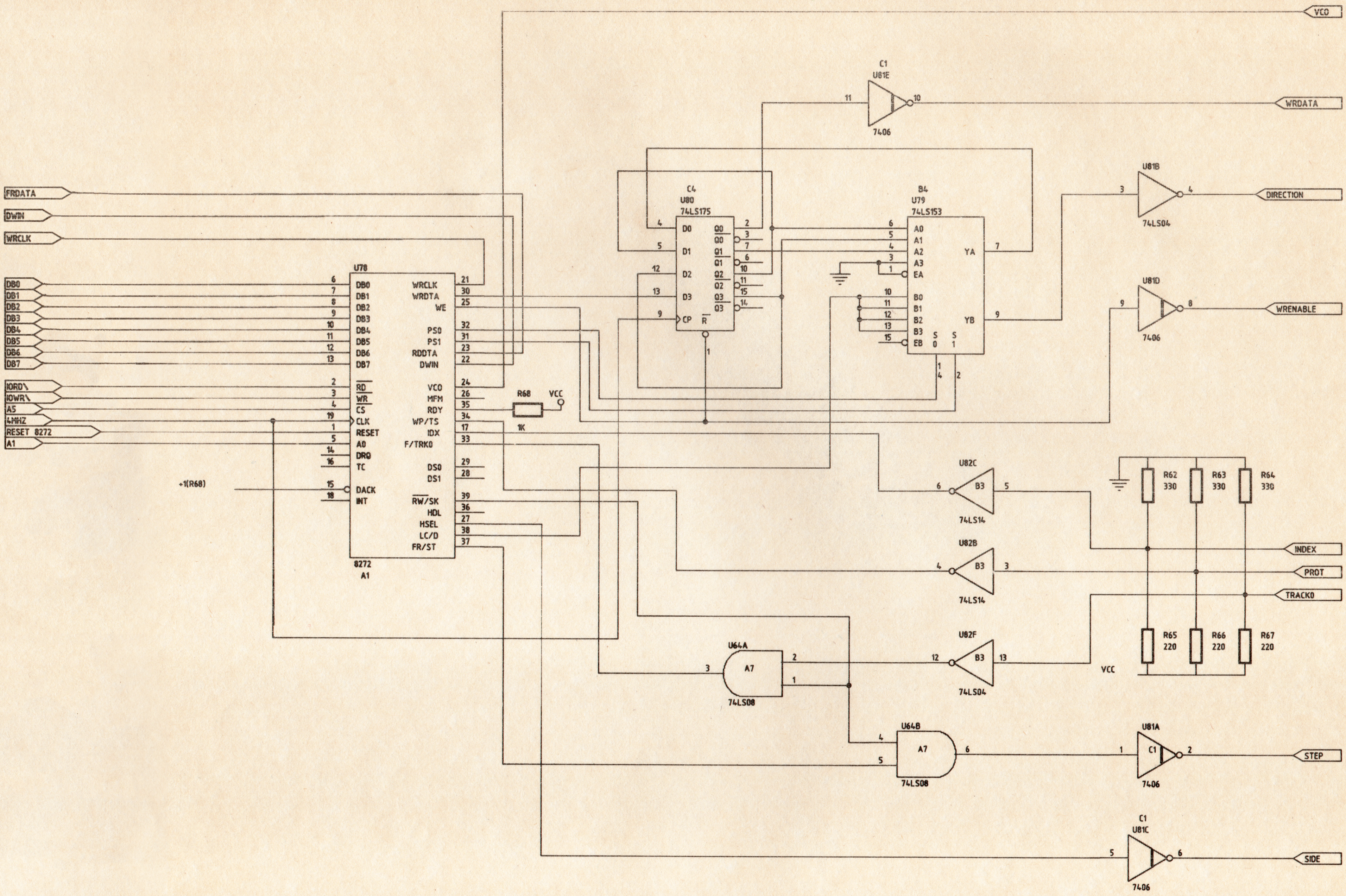


ICE.- APME		
Title: HC88 SYNC GENERATION		
Size: B	Document Number: 869300350	REV: A
Date: January 1, 1980	Sheet 7 of	

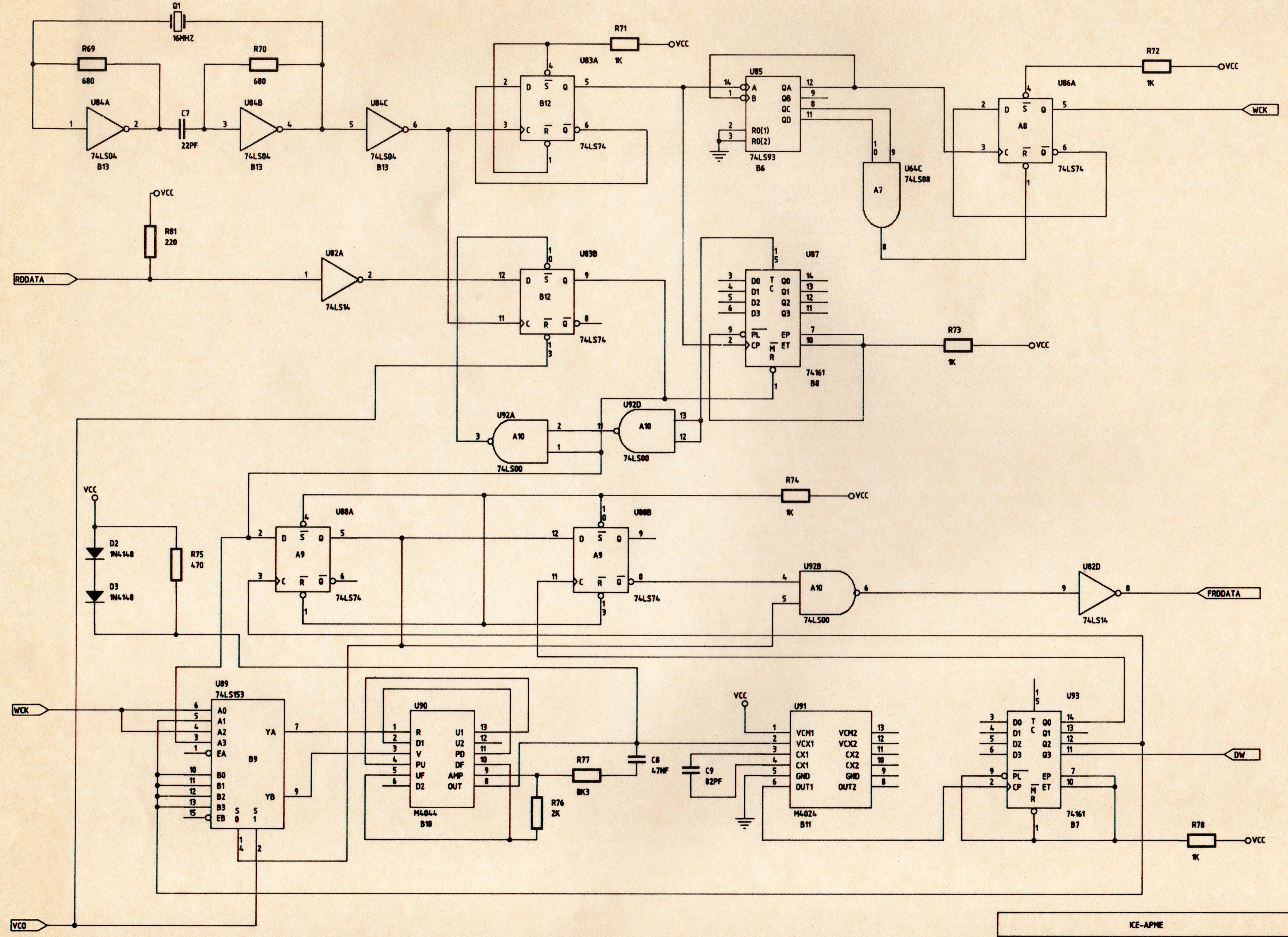


ICE - APME		
Title	HC88 RGB GENERATION	
Size B	Document Number 869300350	REV A
Date: May 4, 1989	Sheet 8 of 14	

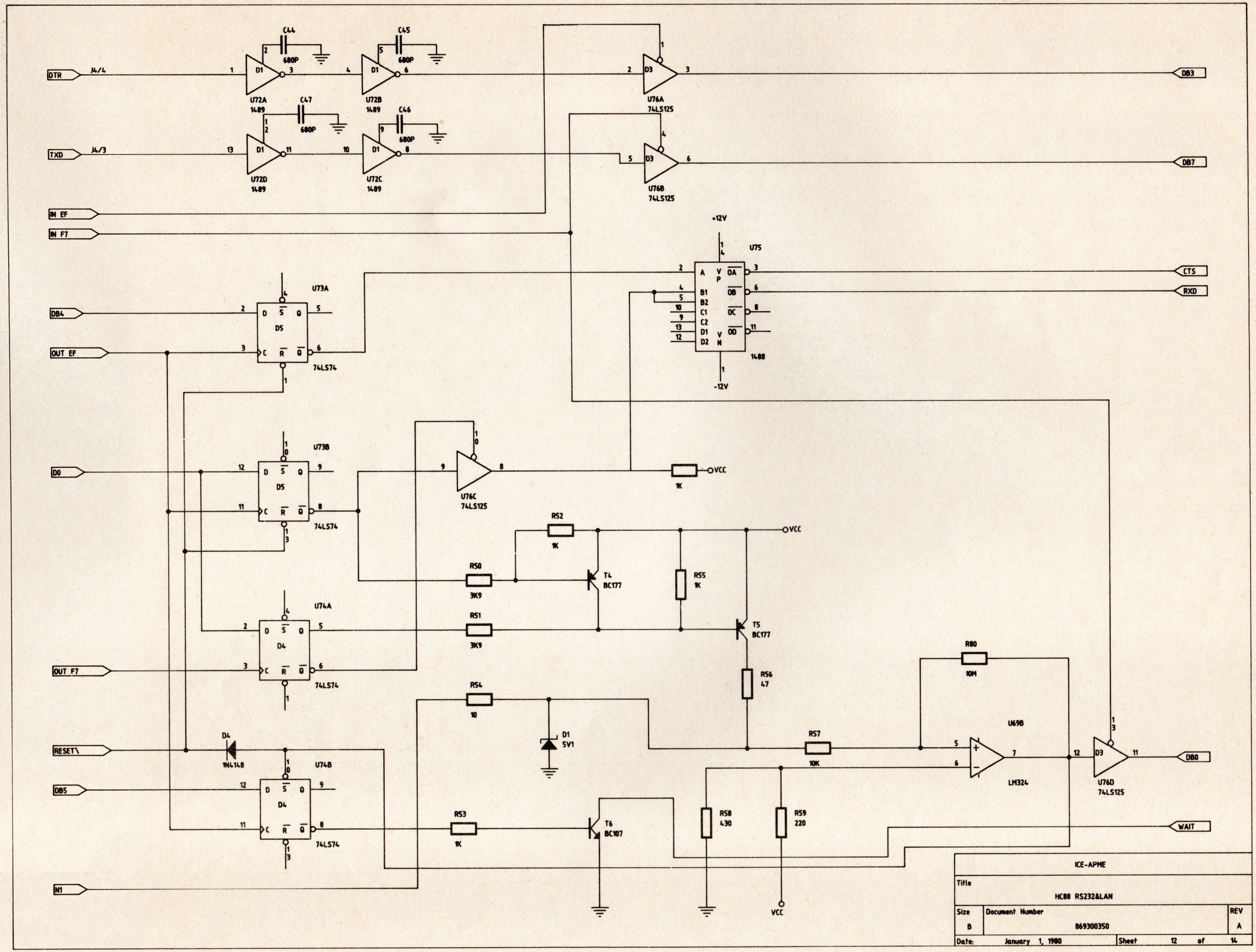

A15
G1
U65A
74LS125
J5/1
BA15
A14
U65B
74LS125
J5/2
BA14
A13
U65D
74LS125
J5/10
BA13
A12
E1
U77A
74LS125
J5/9
BA12
A11
U77D
74LS125
J5/13
BA11
A10
U77C
74LS125
J5/11
BA10
A9
U77B
74LS125
J5/12
BA9
A8
U65C
74LS125
J5/3
BA8
VCC
R61
8X10K
U66A
74LS244
DB0
DB2
DB4
KD0
KD2
KD4
KD1
KD3
U66B
74LS244
DB1
DB3
DB6
EAR
C5
2.2NF
U69A
LM324
B2
U95D
74LS00
R98
1K
C6
470P
R43
33K
D1
EFD
R44
10K
R45
1K
BORD0
BORD1
BORD2
U67
74LS174
R46
1K
T3
BD135
R47
10K
R48
1K
R49
1K
DIFUZOR
MIC
IN FE\
DB[0..7]
OUT FE\
OUT CMD
U68
74LS174
B5
LOAD\
LOCK\
MOD0
MOD1
MOD
SCR
RESET\
ICE-APHE
Title
HC88 KEYBOARD & CASS
Size
B
Document Number
869300350
REV
A
Date:
May 4, 1989
Sheet 9 of 14



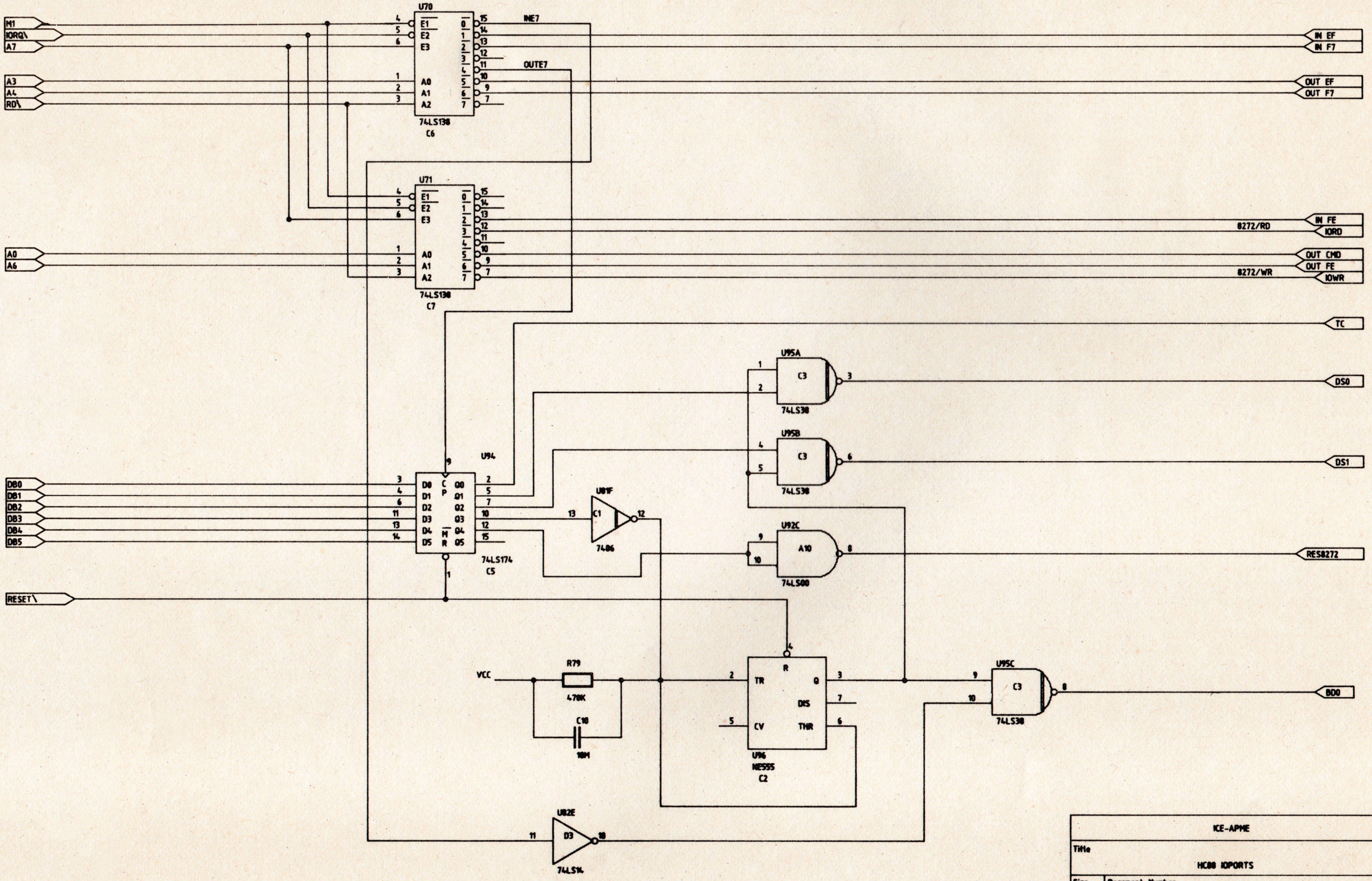
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Size B	Document Number 869300350	REV A
Date: May 4, 1989	Sheet 10 of 14	



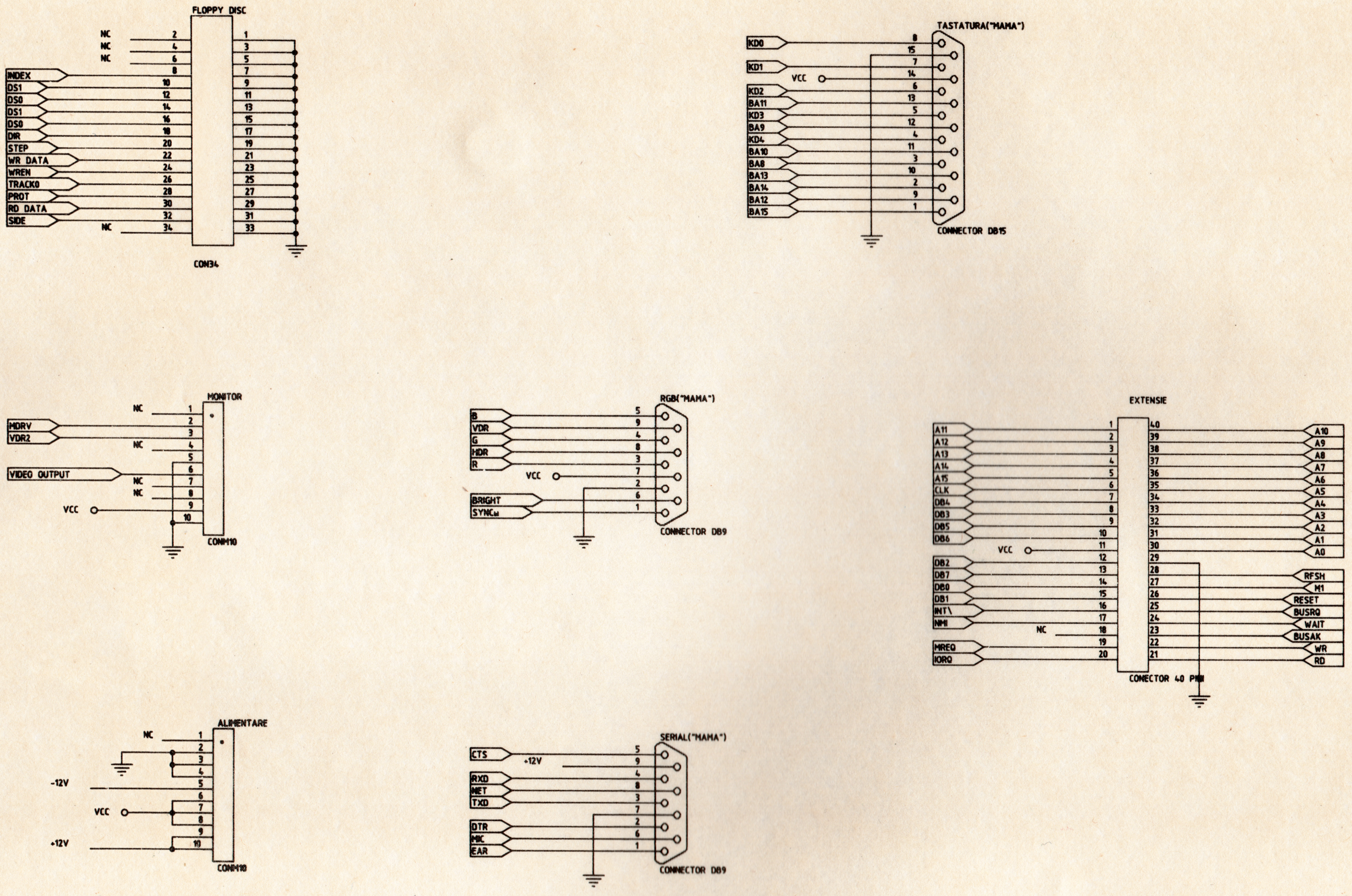
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Title	HC88 DISK PLL	
Size B	Document Number 069300350	REV A
Date: May 4, 1989	Sheet 11 of 14	



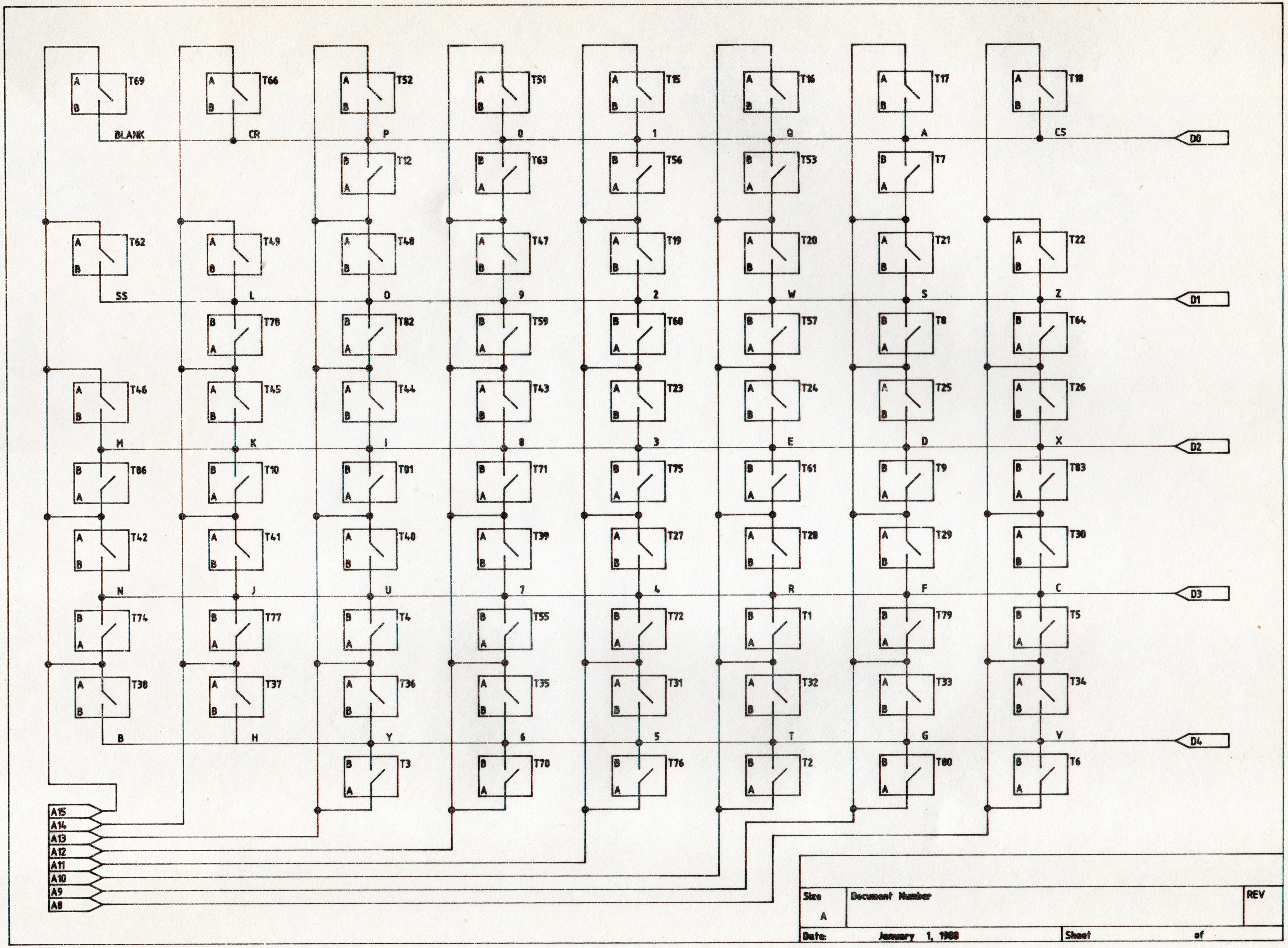
DTR
J4/4
TXD
J4/3
IN EF
IN F7
DB4
OUT EF
D0
OUT F7
RESET\
DB5
N1
C44
680P
C45
680P
C47
680P
C46
680P
U72A
1489
U72B
1489
U72D
1489
U72C
1489
U76A
74LS125
U76B
74LS125
DB3
DB7
+12V
U75
1488
-12V
CTS
RXD
U73A
74LS74
U73B
74LS74
U76C
74LS125
1K
VCC
R52
1K
R50
3K9
T4
BC177
R55
1K
U74A
74LS74
R51
3K9
T5
BC177
R80
10M
R56
47
R54
10
D1
5V1
D4
1N4148
U74B
74LS74
R53
1K
T6
BC107
R57
10K
R58
430
R59
220
U69B
LM324
U76D
74LS125
DB0
WAIT
ICE-APME
Title
HC88 RS232&LAN
Size
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Document Number
869300350
REV
A
Date: January 1, 1980
Sheet 12 of 14

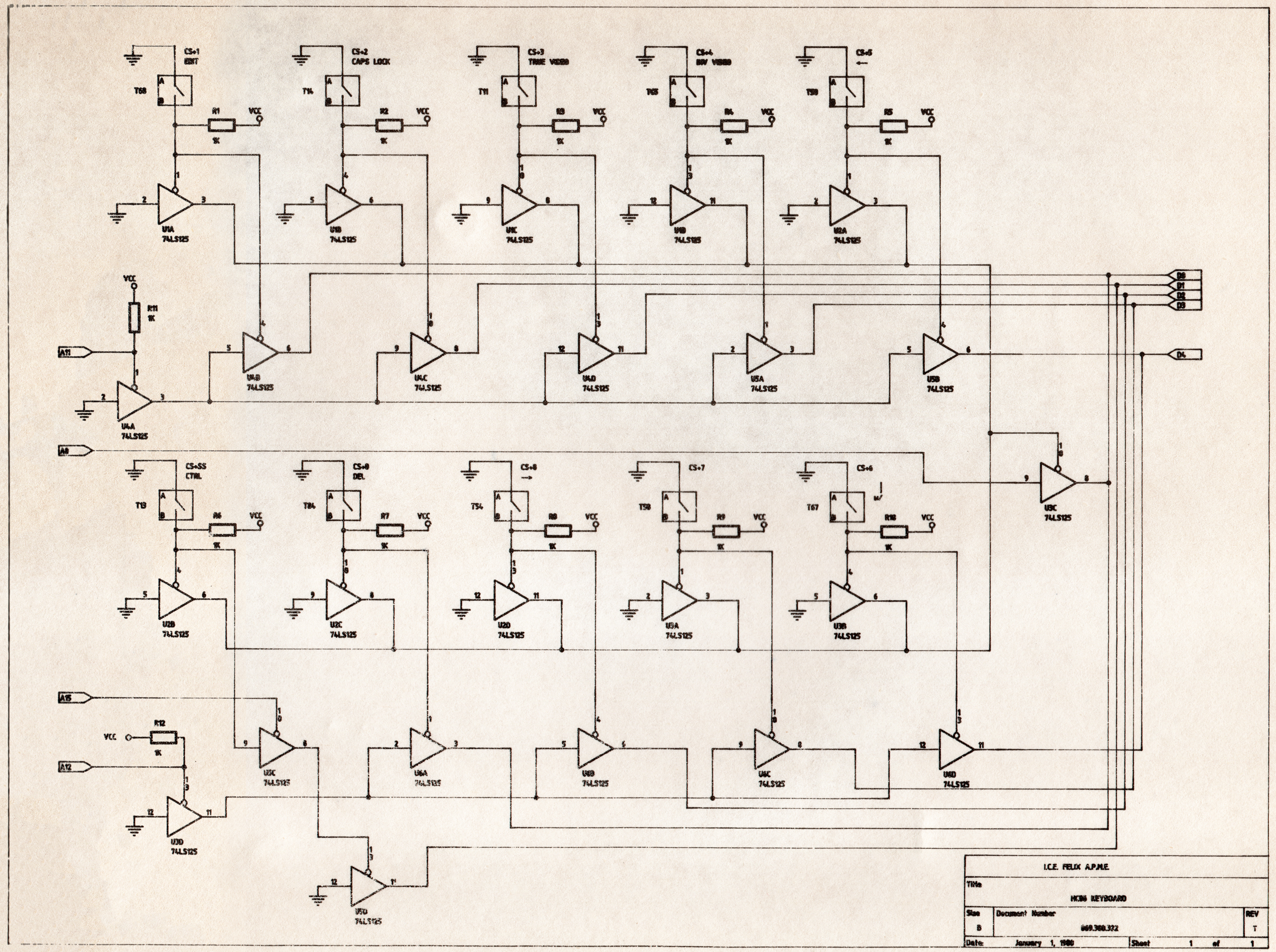


ICE-APME		
Title	HC88 IOPORTS	
Size B	Document Number 069300350	REV A
Date: December 16, 1989	Sheet 13 of 14	



ICE-APME		
Title: HC88 CONECTORS		
Size: B	Document Number: 869 400 350	REV: A
Date: December 13, 1989	Sheet 14 of 14	


T69 T66 T52 T51 T15 T16 T17 T18
BLANK CR P 0 1 Q A CS
D0
T12 T63 T56 T53 T7
T62 T49 T48 T47 T19 T20 T21 T22
SS L O 9 2 W S Z
D1
T78 T82 T59 T60 T57 T8 T64
T46 T45 T44 T43 T23 T24 T25 T26
M K I 8 3 E D X
D2
T86 T10 T81 T71 T75 T61 T9 T83
T42 T41 T40 T39 T27 T28 T29 T30
N J U 7 4 R F C
D3
T74 T77 T4 T55 T72 T1 T79 T5
T38 T37 T36 T35 T31 T32 T33 T34
B H Y 6 5 T G V
D4
T3 T70 T76 T2 T80 T6
A15
A14
A13
A12
A11
A10
A9
A8
Size
A
Document Number
REV
Date: January 1, 1988
Sheet of


CS+1 EDIT
CS+2 CAPS LOCK
CS+3 TRUE VIDEO
CS+4 INV VIDEO
CS+5 ←
CS+SS CTRL
CS+0 DEL
CS+8 →
CS+7
CS+6
VCC
74LS125
D0
D1
D2
D3
D4
A11
A8
A15
A12
I.C.E. FELIX A.P.M.E.
Title
KEYBOARD
Size
B
Document Number
REV
T
Date:
January 1,
Sheet
1
of
1